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FRENCH REPUBLIC  
NATIONAL INSTITUTE OF INDUSTRIAL PROPERTY  
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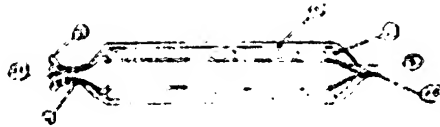
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DISPOSABLE REVERSIBLE GLOVE

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List of documents mentioned in the  
preliminary search report: Refer to the end of this section.

Abstract

Disposable reversible glove, characterized by the fact that it has three superposed layers of different materials; (1) soft nonwoven tight cotton fibers, (2) absorbent nonwoven wadding material, (3) impermeable film. These three layers are heat fused, stitched or glued together on two or three sides of the periphery. On one of the four sides, a hole is provided for passage of a hand. On the periphery of this passage, an elastic part is recommended for ensuring the tightening of the glove on the wrist. Ending above the elastic part is the nonelastic part which is broader and not tight so as to allow the glove to be slipped on and off and turned inside out with the help of the other hand.



The present invention relates to a disposable reversible glove allowing one to wash oneself or to be washed. It is only used once since, after being used, it is discarded in the trash.

The traditional glove is used for washing up; it is used several times, and unless one is very organized or lives alone, one never knows whether it has been used for washing the face, the private parts, the feet etc., or whether one of one's associates has used it without paying much attention. One is uncertain and feels obliged to put it in the wash very often.

The invention of this disposable reversible glove allows these disadvantages to be remedied.

The disposable reversible glove is composed mainly of three layers of different materials:

- layer (1) made of soft nonwoven tight cotton fiber. This material is the surface of contact of the glove with the skin; it is therefore necessarily soft to the touch and rather resilient so as to support the complete washing of a person.

- layer (2) made of absorbent nonwoven wadding material. This material is the intermediate surface of the glove, so its main property is that it is sufficiently absorbent to retain a liquid and to be wrung out several times if necessary. This material stops before the constricting part, Figure 1, Figure 2, Figure 3.

- layer (3) made of an impermeable film. This material is the interior surface of the glove, so its only property is that it is impermeable. This layer (3) can be replaced by a surface treatment of layer (2) giving it the same impermeable properties.

These layers are proposed in different thicknesses, and of different materials from those mentioned, as long as the same functions and properties are achieved.

These three layers are connected together by heat fusing and/or glued together and/or stitched together on two or three sides (10) of the periphery, Figure 1, Figure 3.

An elastic band (4) of varying width is added which allows the glove to be held on the wrist. This band is heat fused and/or stitched and/or glued on side (11) for passage of the hand between layers (1) and (3) [sic].

The appended drawings illustrate the invention:

- Figure 1: longitudinal section of the glove after having been heat fused and/or stitched and/or glued on three sides.

- Figure 2: longitudinal section of the glove after having been heat fused and/or stitched and/or glued and after have been turned inside out before use.

- Figure 3: longitudinal section of the glove after having been heat fused and/or stitched and/or glued on two sides.

- Figure 4: top view of the glove.

- Figure 5: view of the glove in operation.

The disposable reversible glove is proposed with or without a product added by absorption in layers (1) and (2), such as a washing product of any sort, deodorant products, perfumed lotion, disinfecting product, gel of any sort, tanning product, waxing product, paint stripper, product for animals, paint, or quite simply, water.

The disposable reversible glove is proposed in different sizes (child, adult), in different shapes, with different colors, different patterns, different designs, different written material.

The disposable reversible glove is proposed [to be supplied] in individual packagings and/or in packets and/or refills and/or boxes and/or dispensers.

The disposable reversible glove with added product is packaged in a plasticized wrapping which is sealed with regard to water, air and light.

This disposable reversible glove is used for daily washing of human beings from the youngest to the oldest and for other functions, whether they are medical or industrial or other uses.

This disposable reversible glove is designed according to the traditional methods already known for manufacturing of these products, such as diapers for babies or adults, disposable mattress protectors, sanitary napkins or any other similar product.

The disposable reversible glove hermetically protects the hand from water and other products. It thus protects one from all soiled and contaminated materials whether they are liquid or solid.

The disposable reversible glove is turned inside out after it is used, by sliding the elastic part towards the end of the fingers of the gloved hand. This enables one to close the unit and to form an impermeable plasticized pocket which encloses the dirty matter.

It is discarded in the trash since, in accordance with its manufacturing, this glove is entirely biodegradable.

Because this product is very useful, it will be manufactured in the thousands of copies; its packaging will vary as a function of the needs, be they familial, medical, industrial or other.

This invention promotes hygiene and the well-being of the users.

### Claims

1. The disposable reversible glove, characterized by the fact that it is composed mainly of three layers of different materials:

- layer (1) made of soft nonwoven tight cotton fiber. This material is the surface of contact of the glove with the skin.

- layer (2) made of absorbent nonwoven wadding material; this material is the intermediate surface of the glove, so its main property is that it is sufficiently absorbent to retain a liquid and to be wrung out several times if necessary. This material stops before the constricting part, Figure 1, Figure 2, Figure 3.

- layer (3) made of an impermeable film; this material is the interior surface of the glove, so its only property is that it is impermeable.

2. The disposable reversible glove according to Claim 1, characterized by the fact that layer (3) can be replaced by a surface treatment of layer (2), giving it the same impermeable properties.

3. The disposable reversible glove according to either of Claims 1 and 2, characterized by the fact that these layers are proposed in different thicknesses, and of different materials from those mentioned, as long as the same functions and properties are achieved.

4. The disposable reversible glove according to one of Claims 1-3, characterized by the fact that the three layers are connected together by heat fusing and/or glued together and/or stitched together on two or three sides (10) of the periphery, Figure 1 and Figure 3.

5. The disposable reversible glove according to one of Claims 1-4, characterized by the fact that elastic band (4) of varying width which is added allows the glove to be held on the wrist. This band is heat fused and/or stitched and/or glued on side (11) for passage of the hand between layers (1) and (3).

6. The disposable reversible glove according to one of Claims 1-5, characterized by the fact that it is proposed with or without product added by absorption in layers (1) and (2).

7. The disposable reversible glove according to one of Claims 1-6, characterized by the fact that it is proposed in different sizes, in different shapes, with different colors, different patterns, different designs, different written material.

8. The disposable reversible glove according to one of Claims 1-7, characterized by the fact that it is proposed in individual packaging and/or in packets and/or refills and/or boxes and/or dispensers.

9. The disposable reversible glove according to one of Claims 1-8, characterized by the fact that it is proposed with added product and packaged in a plasticized wrapping which is sealed with regard to water, air and light.

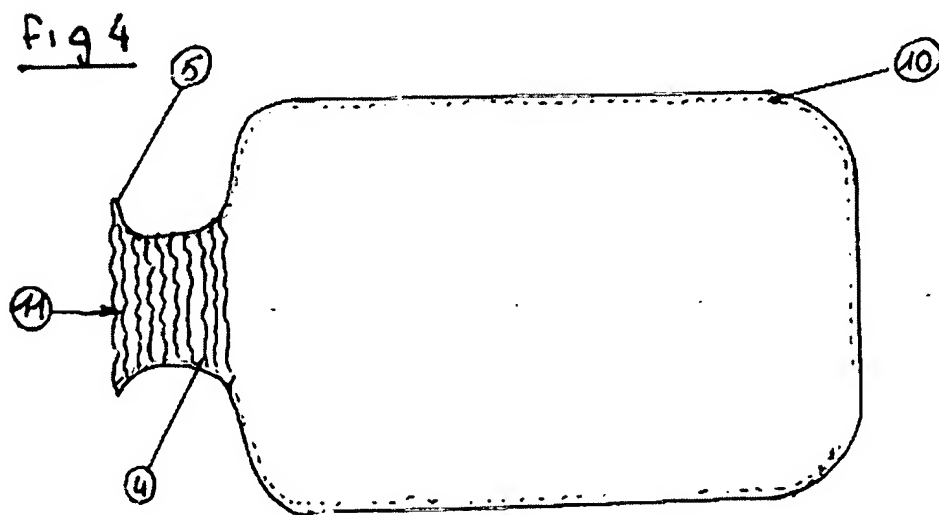
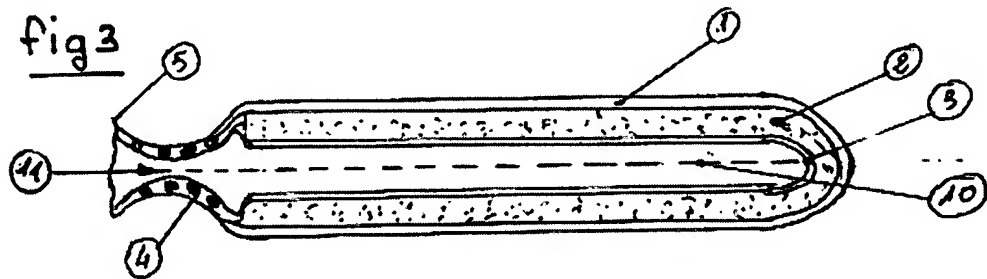
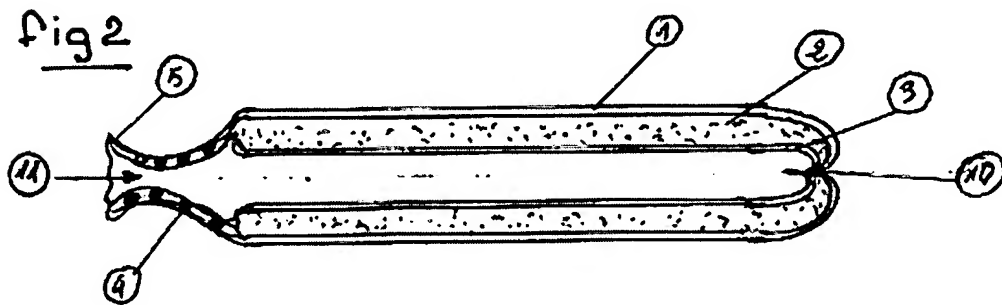
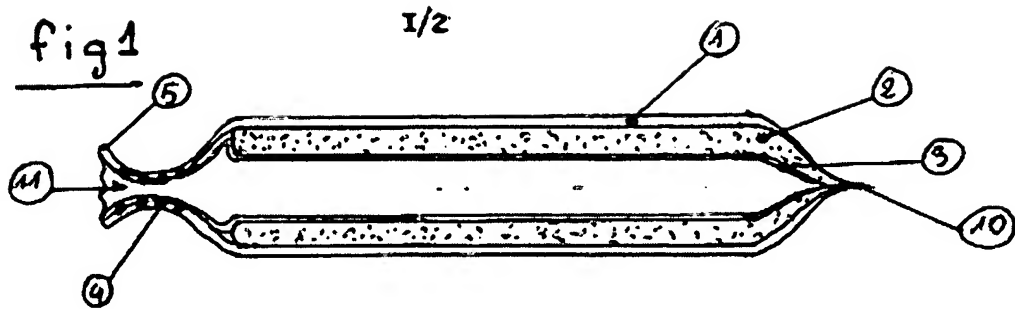
10. The disposable reversible glove according to one of Claims 1-9, characterized by the fact that it is designed according to the traditional methods already known for manufacturing of these products, such as diapers for babies or adults, disposable mattress protectors, sanitary napkins or any other similar product.

11. The disposable reversible glove according to one of Claims 1-10, characterized by the fact that it hermetically protects the hand.

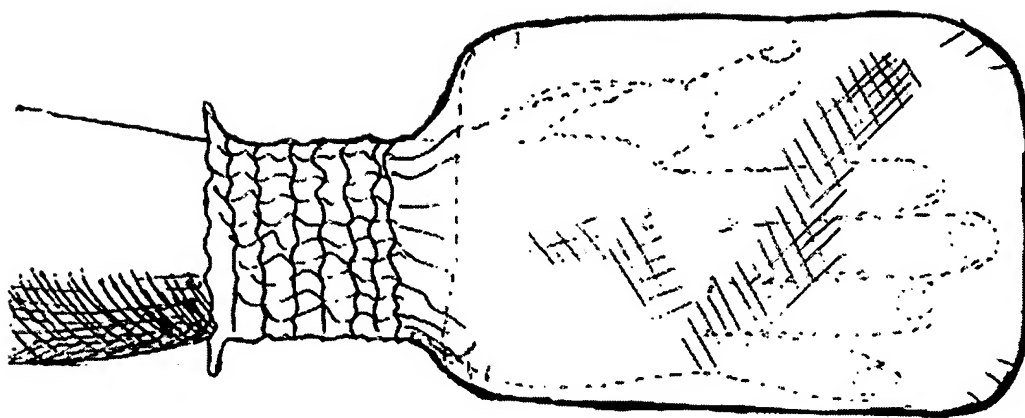
12. The disposable reversible glove according to one of Claims 1-11, characterized by the fact that it is turned inside out after it is used, by sliding the elastic part towards the end of the fingers of the gloved hand.

13. The disposable reversible glove according to one of Claims 1-12, characterized by the fact that it is discarded in the trash.

14. The disposable reversible glove according to one of Claims 1-13, characterized by the fact that, in accordance with its manufacturing, this glove is entirely biodegradable.



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Fig 5



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National Institute  
of Industrial Property

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FA 596195  
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### SEARCH REPORT

established on the basis of the most  
recent claims filed before the start of  
the search

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication where appropriate, of relevant passages	Claims concerned in the examined document	
X	US 4 974 730 A (DERUYSSCHER BETTY K) *December 4, 1990 (1990-12-04) * column 3, line 28-line 64 *	1, 3, 6-8, 10, 13, 14	A47K10/16 A47K10/24
Y	* column 4, line 23-line 29; figures *	2, 4, 5, 9, 11, 12	
Y	US 3 053 385 A (SPEES) September 11, 1962 (1962-09-11) * column 1, line 17-line 28 * * column 2, line 40-line 67; figure 2 *	2	
Y	FR 2 539 022 A (MENEUT SERGE) July 13, 1984 (1984-07-13) * page 1, line 1-line 15 * * page 2, line 1-page 3, line 23; figures 1, 2 *	4	
A	EP 0 409 802 A (EMME MEDICAL SRL) January 23, 1991 (1991-01-23) * column 2, line 33-column 3, line 16; figures *	6, 12-14	TECHNICAL FIELDS SEARCHED (Int. Cl. <sup>7</sup> )
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Date of completion of the search May 10, 2001		Examiner Porwoll, H	
CATEGORY OF CITED DOCUMENTS			
X: Particularly relevant if taken alone.		T: Theory or principle underlying the invention.	
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A: Technological background.		D: Document cited in the application.	
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